

GMS Monthly Operations Report

May 2004

1. Events of Special Operation

1.1 Eclipse Operation

There was no Eclipse Operation of GMS-5.

1.2 Solar-interference Operation

There was no Solar-interference Operation of GMS-5.

1.3 System Maintenance

The maintenance of the ground system was not performed in this month.

2. Image Observation and Dissemination

2.1 S-VISSR type data dissemination

Except for the scheduled cancellation, the data disseminations were performed in satisfactory. The following table shows the performance and summary of the S-VISSR type data disseminations in this month.

Performance of S-VISSR type data disseminations

	S-VISSR type data Disseminations	Remarks
Scheduled	744	
Performed	741	
Performance in %	99.6	

Summary of anomaly S-VISSR type data disseminations

Date	Product	Remarks
None		

Summary of canceled S-VISSR type data disseminations

Date	Product	Reasons
May 15	08UTC	The 0725UTC image was missing.
May 20	18UTC	The 1725UTC image was missing.
May 28	13UTC	The 1225UTC GVAR data was anomaly.

2.2 WEFAX Dissemination

Except for the scheduled cancellation, the data disseminations were performed in satisfactory. The following table shows the performance and summary of the WEFAX disseminations in this month.

Performance of WEFAX Disseminations

GMS-5	Disseminated	Remarks
Scheduled	2604	
Performed	2596	
Performance in %	99.7	

Summary of anomaly WEFAX disseminations

Date	Product	Remarks
May 28	13UTC	The 1225UTC GVAR data was anomaly.

Summary of Cancelled WEFAX Dissemination

Date	Product	Reasons
May 15	08UTC	The 0725UTC image was missing.
May 20	18UTC	The 1725UTC image was missing.

3. Data Collection System

3.1 International Data Collection System (IDCS)

The following table shows the number of IDCP messages received at MSC and disseminated through the GTS.

Reception and Dissemination of Messages

IDCP channel	Number of IDCPs ^{a)}	Received messages	Format errors ^{b)}	Non WMO code ^{c)}	Disseminated messages to the GTS
I06	14	0	0	0	0
I07	22	0	0	0	0
I10	3	0	0	0	0
I14	3	0	0	0	0
I15	7	201	0	0	201
I16	5	0	0	0	0
I18 (ASDAR)	8	353	44	0	309
I20	3	0	0	0	0
Total	65	554	44	0	510

a) Number of DCPs registered on GMS-5 IDCS as of 1 May 2003.

b) Format error was caused by the radio telecommunication interference.

c) The messages were none or unsuited to the WMO codes and "DATA BUFFER EMPTY" or "NO MESSAGE was detected by the DCP data processing software at MSC

3.2 Interference on IDCP Channels

The following table shows interference on the channels of the GMS International Data Collection System (IDCS).

Interference on GMS IDCS Channels (May 2004)

ch.	1	2	3	4	5	6	7	8	9	10	11
May	W										

Ch.	12	13	14	15	16	17	18	19	20	21	22
May											

Ch.	23	24	25	26	27	28	29	30	31	32	33
May									W		S

S: severe interference

W: weak interference

4. Satellite System Status

4.1 Satellite Status

GMS-5 was located at longitude of 140 degrees east and continued to provide its operational services.

4.2 Maneuver

The East-West Station Keeping maneuver of GMS-5 was performed on May 13.

Attitude control maneuver and Spin Rate control maneuver was performed on May 20.

4.3 Orbit and Attitude Elements of GMS-5

The orbit and attitude elements of GMS-5 are shown in the table below.

Epoch 00:00:00 UTC, 5 July 2004

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42162.73613
	Eccentricity (e)	-	0.00008656
	Inclination (I)	Degree	3.02743
	Right ascension of ascending node (Ω)	Degree	81.22652
	Argument of perigee (ω)	Degree	343.88086
	Mean anomaly (M)	Degree	358.18348
Attitude	Right ascension (α)	Degree	172.87572
	Declination (δ)	Degree	-86.89087

5. Ground System Status

The operation for the ground system was satisfactory.